IEI Technology Corp.

MODEL:

AUPS Series

VESA Mount Intelligent UPS Module
12 V DC Input or 9 V ~ 36 V DC Input
Network Remote Management Support

User Manual

Rev. 1.00 November, 2008

RoHS Lead Free

Revision

Date	Version	Changes
2008-11	1.00	Initial release

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Manual Conventions

WARNING!

Warnings appear where overlooked details may cause damage to the equipment or result in personal injury. Warnings should be taken seriously. Warnings are easy to recognize. The word “warning” is written as “**WARNING**,” both capitalized and bold and is followed by text. The text is the warning message. A warning message is shown below:

WARNING:

This is an example of a warning message. Failure to adhere to warning messages may result in permanent damage to the AUPS Series or personal injury to the user. Please take warning messages seriously.

CAUTION!

Cautionary messages should also be heeded to help reduce the chance of losing data or damaging the AUPS Series. Cautions are easy to recognize. The word “caution” is written as “**CAUTION**,” both capitalized and bold and is followed. The text is the cautionary message. A caution message is shown below:

CAUTION:

This is an example of a caution message. Failure to adhere to cautions messages may result in permanent damage to the AUPS Series. Please take caution messages seriously.

NOTE:

These messages inform the reader of essential but non-critical information. These messages should be read carefully as any directions or instructions contained therein can help avoid making mistakes. Notes are easy to recognize. The word “note” is written as “**NOTE**,” both capitalized and bold and is followed by text. The text is the cautionary message. A note message is shown below:

NOTE:

This is an example of a note message. Notes should always be read. Notes contain critical information about the AUPS Series. Please take note messages seriously.

Packing List

NOTE:

If any of the components listed in the checklist below are missing, please do not proceed with the installation. Contact the IEI reseller or vendor you purchased the AUPS Series from or contact an IEI sales representative directly. To contact an IEI sales representative, please send an email to sales@iei.com.tw.

The items listed below should all be included in the AUPS Series package.

- 1 x AUPS Series UPS module
- 1 x Li-ion battery pack
- 1 x DC output cable
- 1 x USB cable
- 1 x DC output switch cable
- 1 x Screw kit
- 1 x Mounting bracket
- 2 x Wall mount brackets
- 1 x Utility software CD

Images of the above items are shown in **Chapter 3**.

Table of Contents

1 INTRODUCTION 1

1.1 AUPS SERIES OVERVIEW 2
1.2 AUPS SERIES UPS MODULE FEATURES 2
1.3 EXTERNAL OVERVIEW 3
1.3.1 I/O interface panel (Standard) 3
1.3.1.1 AUPS-A10 Power Input Connector 4
1.3.1.2 AUPS-A20 Power Input Connectors 4
1.3.1.3 AUPS-B10 Power Input Connector 5
1.3.1.4 AUPS-B20 Power Input Connectors 5
1.3.2 LED Indicators 6
1.4 AUPS SERIES SPECIFICATIONS 7
1.5 BATTERY SPECIFICATIONS 8
1.6 AUPS SERIES DIMENSIONS 9
1.6.1 AUPS-A10/AUPS-A20 Dimensions 9
1.6.2 AUPS-B10/AUPS-B20 Dimensions 10

2 UNPACKING 11

2.1 ANTI-STATIC PRECAUTIONS 12
2.2 UNPACKING 12
2.2.1 Unpacking Precautions 12
2.3 UNPACKING CHECKLIST 13
2.3.1 Package Contents 13

3 INSTALLATION 15

3.1 ANTI-STATIC PRECAUTIONS 16
3.2 INSTALLATION PRECAUTIONS 16
3.3 INSTALLATION AND CONFIGURATION STEPS 17
3.4 BATTERY PACK INSTALLATION 17
3.5 MOUNTING THE AUPS SERIES 18
3.6 CONNECTING THE AUPS SERIES 20

4 SOFTWARE APPLICATION 21

4.1 INTRODUCTION 22
4.2 MONITORING DC POWER AND SMART BATTERY 22
4.2.1 Application Installation *22*
4.2.2 Status Information *25*
4.2.2.1 DC Detection 25
4.2.2.2 Battery Detection 26
4.2.2.3 Total Battery Time 26
4.2.3 Battery Information *27*
4.2.4 LAN Setting *27*
4.2.5 Setting *29*
4.3 REMOTE CONTROL AND MONITORING 31

A HAZARDOUS MATERIALS DISCLOSURE 36

A.1 HAZARDOUS MATERIALS DISCLOSURE TABLE FOR IPB PRODUCTS CERTIFIED AS ROHS COMPLIANT UNDER 2002/95/EC WITHOUT MERCURY 37

List of Figures

Figure 1-1: AUPS Series UPS Module 2
Figure 1-2: AUPS Series Standard I/O Interface Connectors....3
Figure 1-3: AUPS-A10 Power Input Connector....4
Figure 1-4: AUPS-A20 Power Input Connectors....4
Figure 1-5: AUPS-B10 Power Input Connector....5
Figure 1-6: AUPS-B20 Power Input Connectors....5
Figure 1-7: AUPS Series LED Indicators....6
Figure 1-8: AUPS-A10/A20 Dimensions (mm) 9
Figure 1-9: AUPS-B10/B20 Dimensions (mm) 10
Figure 3-1: Top Cover Retention Screws (Rear Panel)....17
Figure 3-2: Top Cover Retention Screws (Top Panel) 18
Figure 3-3: Battery Pack Installation 18
Figure 3-4: Mounting Bracket Installation....19
Figure 3-5: Mounting the AUPS Series....19
Figure 3-6: AUPS Series and Panel PC Connection 20
Figure 4-1: Welcome Screen 22
Figure 4-2: Select Installation Folder....23
Figure 4-3: Ready to Install the Program 23
Figure 4-4: Installing AUPS 24
Figure 4-5: Installation Complete....24
Figure 4-6: AUPS Battery Status Monitor Application....24
Figure 4-7: Status Information 25
Figure 4-8: DC Detection....25
Figure 4-9: Battery Detection 26
Figure 4-10: Total Battery Time....27
Figure 4-11: Battery Information....27
Figure 4-12: LAN Setting....28
Figure 4-13: LAN Setting – Change Password 29
Figure 4-14: Application Setting 30
Figure 4-15: COM Port Status....30

Figure 4-16: RJ-45 Remote LAN Connector 31
Figure 4-17: IEI REMOTE AP 32
Figure 4-18: IEI REMOTE AP – IP Address 33
Figure 4-19: Remote Management Web Interface - Status 33
Figure 4-20: Remote Management Web Interface - Send Email 34
Figure 4-21: Enter User Name and Password 34
Figure 4-22: Board Configuration 35

List of Tables

Table 1-1: LED Indicators 6
Table 1-2: AUPS Series Specifications.....7
Table 1-3: Battery Specifications 8
Table 3-1: Package List Contents 14

Chapter

1

Introduction

1.1 AUPS Series Overview

Figure 1-1: AUPS Series UPS Module

The highly efficient, high-performance AUPS Series UPS (Uninterruptible Power Supply) module installed with a Li-ion battery to provide stable 12V output and uninterruptible power to the IEI AFOLUX series panel PCs. The UPS module also receives either 12 V input or a wide range of inputs between 6 V and 36 V DC. The AUPS Series is built on an intelligent design and provides outstanding line and load regulations. The AUPS Series is capable of providing power for certain of time in power failure.

The AUPS Series UPS module comes with the utility software that provides information on current power source and battery status. With the AUPS software installed and network connected, the AUPS Series can be monitored and turned on/off through a remote computer.

1.2 AUPS Series UPS Module Features

- Rugged metal enclosure for standard VESA 75/100 mounting
- Wide range power input (9 ~ 36 V) by DC jack or terminal block
- Network management through web-based interface in remote computer. No additional administration software installation is required.
- Supports PC-based utility for monitoring power and battery status
- Auto shut down when battery low
- Provides stable power to AFOLUX PPC during line sags and spikes.
- Absorb power surges and transients

1.3 External Overview

1.3.1 I/O interface panel (Standard)

The I/O interface panel of the AUPS Series (see **Figure 1-2**) has the following standard I/O interface connectors:

- 1 x 12 V DC output jack
- 1 x USB mini-B connector
- 1 x Network remote management port (RJ-45)
- 1 x DC output switch terminal block
- 1 x DC on/off button

The standard external I/O interface connector panel is shown in **Figure 1-2**.

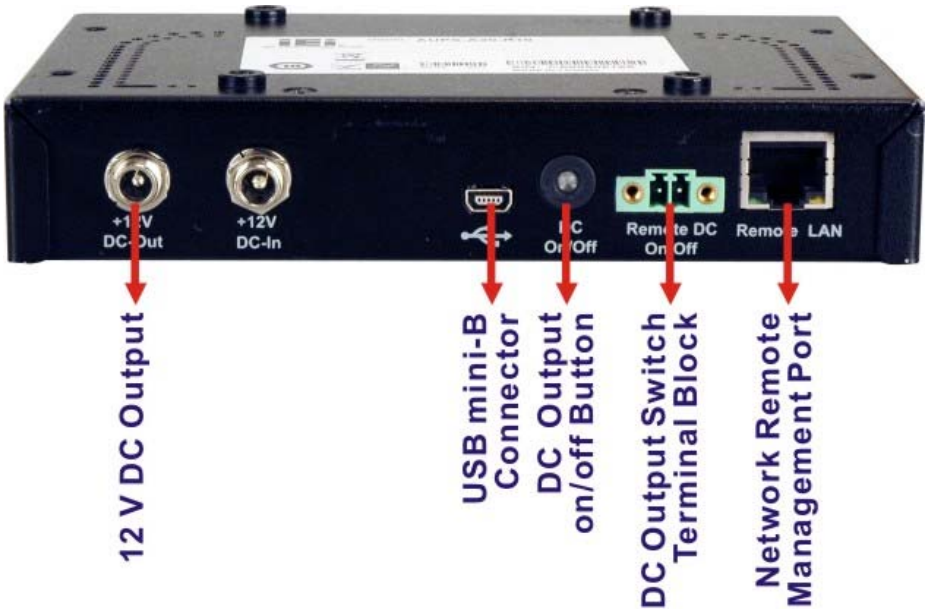


Figure 1-2: AUPS Series Standard I/O Interface Connectors

1.3.1.1 AUPS-A10 Power Input Connector

The AUPS-A10 has one power jack for +12 V DC input (**Figure 1-3**).

Figure 1-3: AUPS-A10 Power Input Connector

1.3.1.2 AUPS-A20 Power Input Connectors

The AUPS-A20 has one power jack and one terminal block for 9 V ~ 36 V DC inputs (**Figure 1-4**).

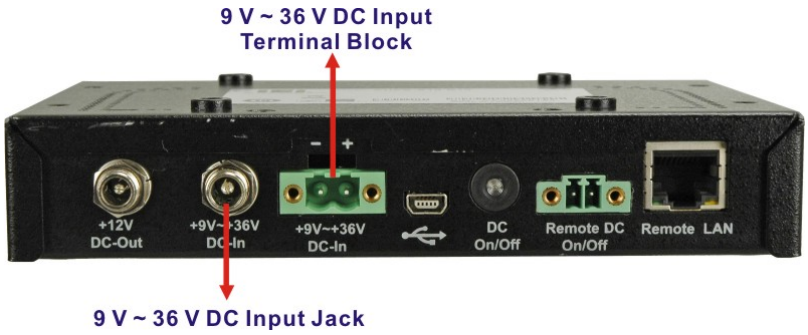


Figure 1-4: AUPS-A20 Power Input Connectors

1.3.1.3 AUPS-B10 Power Input Connector

The AUPS-B10 has one 4-pin power connector for +12 V DC input (**Figure 1-5**).

Figure 1-5: AUPS-B10 Power Input Connector

1.3.1.4 AUPS-B20 Power Input Connectors

The AUPS-B20 has one 4-pin power connector and one terminal block for 9 V ~ 36 V DC inputs (**Figure 1-6**).

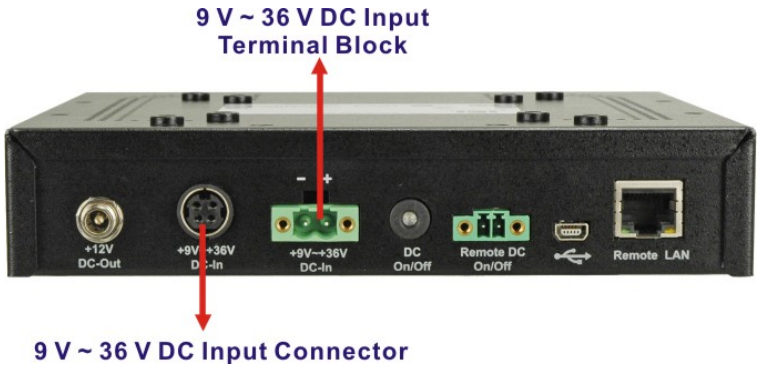


Figure 1-6: AUPS-B20 Power Input Connectors

1.3.2 LED Indicators

The side panel of the AUPS Series has three LED indicators to indicate the power and battery status (**Figure 1-7**).

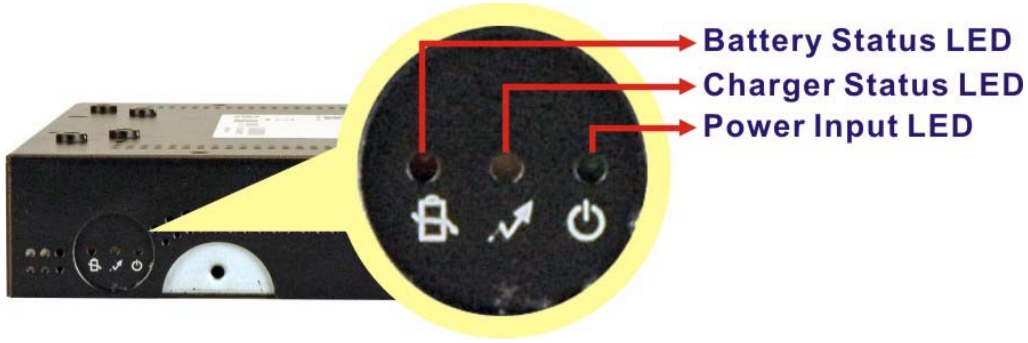


Figure 1-7: AUPS Series LED Indicators

All the LED statuses are listed in **Table 1-1**.

	Power Input LED	**Charger Status LED**	**Battery Status LED**
Color	Green	Yellow	Orange
Off	DC power out	--	--
On	DC power in	Discharging (battery full)	Battery discharging
Blinking	--	Charging	Battery low

Table 1-1: LED Indicators

1.4 AUPS Series Specifications

The AUPS Series UPS module technical specifications are listed in Table 1-2.

Model Name		AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20
VESA Type		VESA 75 mm x 75 mm		VESA 75 mm x 75 mm VESA 100 mm x 100 mm	
Output	Voltage	+12 V +/-5%	+12 V +/-5%	+12 V +/-5%	+12 V +/-5%
	Power	60 W	60 W	100 W	100 W
Input	Voltage	+12 V	+9 V ~ +36 V	+12 V	+9 V ~ +36 V
Battery	Type	Li-ion 2S2P	Li-ion 2S2P	Li-ion 4S2P	Li-ion 4S2P
	Normal Voltage	7.4 V 3800 mAH	7.4 V 3800 mAH	14.8 V 3800 mAH	14.8 V 3800 mAH
	Backup	60 W / 10 Min	60 W / 10 Min	100 W / 10 Min	100 W / 10 Min
Physical	Dimensions (LxWxH)	150 x 95 x 34 (mm)	150 x 95 x 34 (mm)	170 x 150 x 34 (mm)	170 x 150 x 34 (mm)
	Weight	1.2 kg	1.2 kg	1.8 kg	1.8 kg
LED	Green	DC power input	DC power input	DC power input	DC power input
	Yellow	Battery charging	Battery charging	Battery charging	Battery charging
	Orange	Battery discharging	Battery discharging	Battery discharging	Battery discharging
Temperature	Operating	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C
	Storage	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C

Table 1-2: AUPS Series Specifications

1.5 Battery Specifications

The AUPS Series comes with a Li-ion smart battery. Some of the Li-ion battery specifications are listed in **Table 1-3**.

	AUPS-A10/AUPS-A20	AUPS-B10/AUPS-B20
Battery Model	BAT-LI-2S2P3800	BAT-LI-4S2P3800
Battery Type	Li-ion	Li-ion
Nominal Capacity	3800 mAH	3800 mAH
Nominal Voltage	7.4 V	14.8 V
Max. Charge Voltage	8.4 V	16.8 V
Cut Off Voltage	5.6 V	11.2 V
Suggested Charge Current (Max.)	2 A	2 A
System Continuous Discharging Current (Max.)	7.6 A	7.6 A
The End of Charge Condition	250 mA/min	200 mA/min
Discharge Protection	UVP/OCP	UVP/OCP
Charge Protection	OVP/OCP	OVP/OCP
Self-discharge Rate	340 uA ~ 440 uA	340 uA ~ 440 uA
Dimensions	139 mm x 47 mm x 26 mm	165 mm x 76 mm x 26 mm
Ambient Temperature	0°C ~ +40°C	0°C ~ +40°C
Storage Temperature	-20°C ~ +60°C	-20°C ~ +60°C
Backup	60 W/10 min	100 W/ 10 min

Table 1-3: Battery Specifications

1.6 AUPS Series Dimensions

1.6.1 AUPS-A10/AUPS-A20 Dimensions

The AUPS-A10 and AUPS-A20 dimensions are shown in **Figure 1-8**.

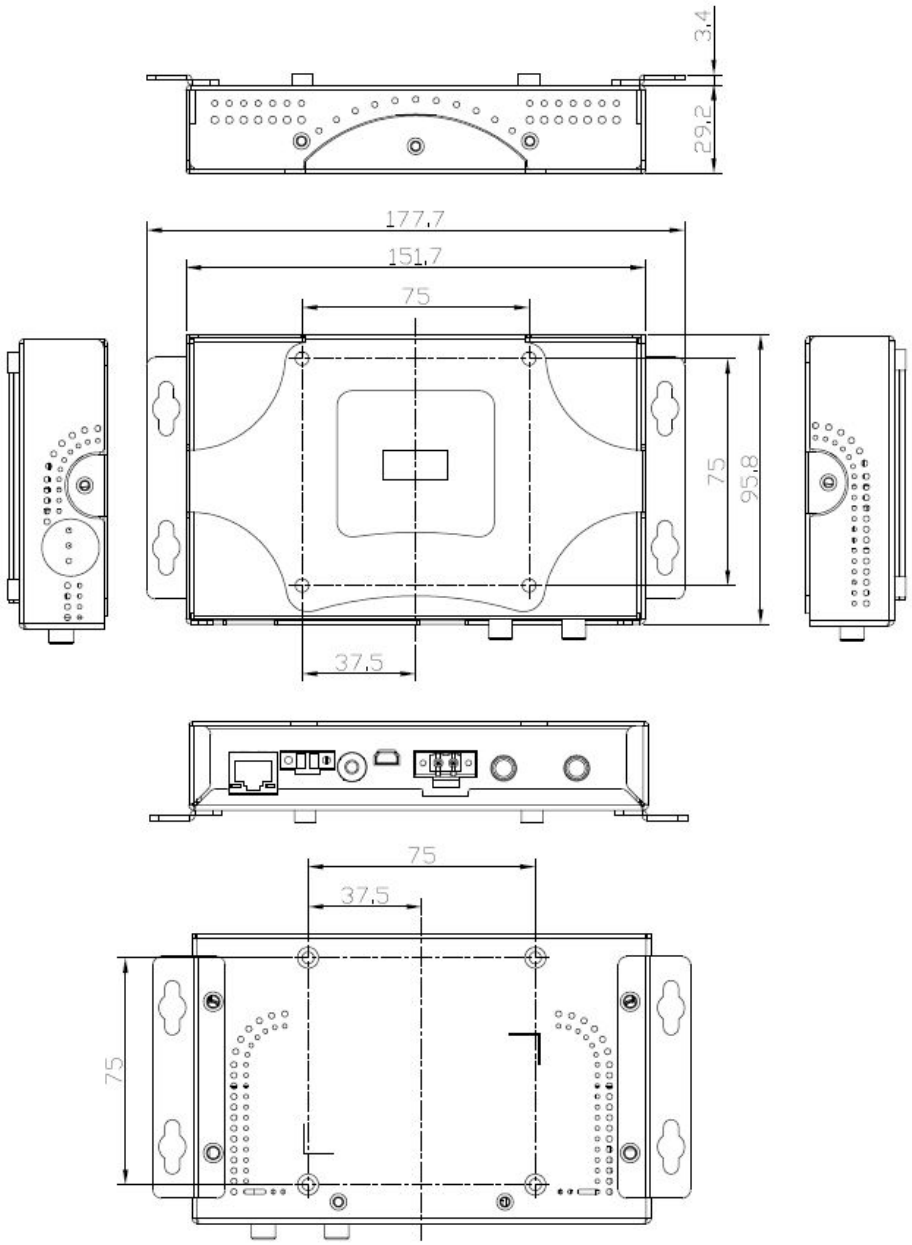


Figure 1-8: AUPS-A10/A20 Dimensions (mm)

1.6.2 AUPS-B10/AUPS-B20 Dimensions

The AUPS-B10 and AUPS-B20 dimensions are shown in **Figure 1-8**.

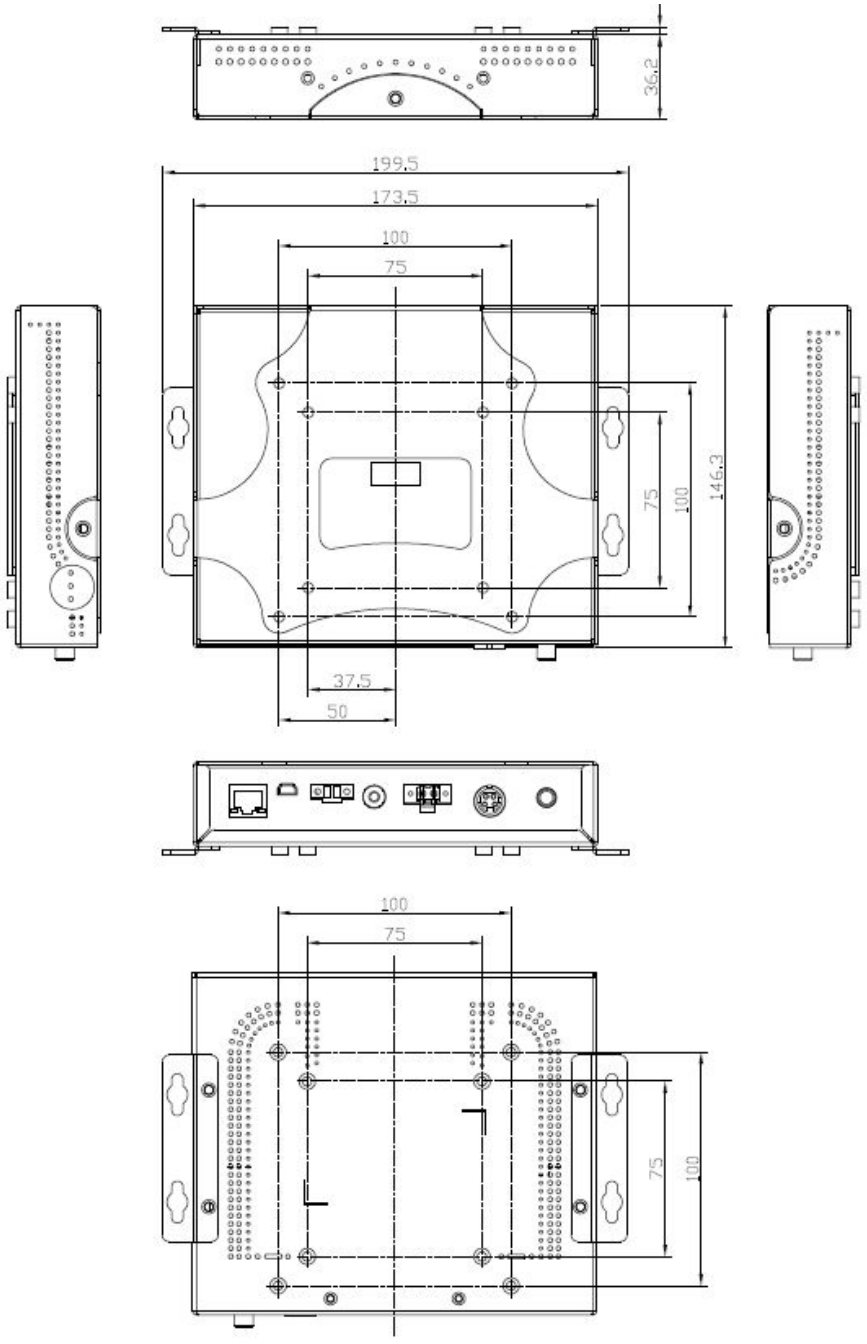


Figure 1-9: AUPS-B10/B20 Dimensions (mm)

Chapter

2

Unpacking

2.1 Anti-static Precautions

WARNING:

Failure to take ESD precautions during the installation of the AUPS Series may result in permanent damage to the AUPS Series and severe injury to the user.

Electrostatic discharge (ESD) can cause serious damage to electronic components, including the AUPS Series. Dry climates are especially susceptible to ESD. It is therefore critical that whenever the AUPS Series, or any other electrical component is handled, the following anti-static precautions are strictly adhered to.

- ***Wear an anti-static wristband***: Wearing a simple anti-static wristband can help to prevent ESD from damaging the board.
- ***Self-grounding***: Before handling the board touch any grounded conducting material. During the time the board is handled, frequently touch any conducting materials that are connected to the ground.
- ***Use an anti-static pad***: When configuring the AUPS Series, place it on an antic-static pad. This reduces the possibility of ESD damaging the AUPS Series.
- ***Only handle the edges of the PCB***: When handling the PCB, hold the PCB by the edges.

2.2 Unpacking

2.2.1 Unpacking Precautions

When the AUPS Series is unpacked, please do the following:

- Follow the anti-static precautions outlined in **Section 2.1**.
- Make sure the packing box is facing upwards so the AUPS Series does not fall out of the box.
- Make sure all the components shown in **Section 2.3** are present.

2.3 Unpacking Checklist

NOTE:

If some of the components listed in the checklist below are missing, please do not proceed with the installation. Contact the IEI reseller or vendor you purchased the AUPS Series from or contact an IEI sales representative directly. To contact an IEI sales representative, please send an email to sales@iei.com.tw.

2.3.1 Package Contents

The AUPS Series is shipped with the following components:

Quantity	Item	Image
1	AUPS Series UPS module	
1	Li-ion battery pack	
1	Mounting bracket	
1	DC output cable	
1	DC output switch cable	

1	USB Type A to mini-B cable	
1	Screw kit	
2	Wall mount bracket	
1	Utility software CD	

Table 2-1: Package List Contents

Chapter

3

Installation

3.1 Anti-static Precautions

WARNING:

Failure to take ESD precautions during the maintenance of the AUPS Series may result in permanent damage to the AUPS Series and severe injury to the user.

Electrostatic discharge (ESD) can cause serious damage to electronic components, including the AUPS Series. Dry climates are especially susceptible to ESD. It is therefore critical that whenever the AUPS Series is accessed internally, or any other electrical component is handled, the following anti-static precautions are strictly adhered to.

- ***Wear an anti-static wristband***: - Wearing a simple anti-static wristband can help to prevent ESD from damaging the board.
- ***Self-grounding***: - Before handling the board touch any grounded conducting material. During the time the board is handled, frequently touch any conducting materials that are connected to the ground.
- ***Use an anti-static pad***: - When configuring the AUPS Series, place it on an antic-static pad. This reduces the possibility of ESD damaging the AUPS Series.
- ***Only handle the edges of the PCB***: - When handling the PCB, hold the PCB by the edges.

3.2 Installation Precautions

When installing the power module, please follow the precautions listed below:

- **Power turned off**: When installing the power module, make sure the power is off. Failing to turn off the power may cause severe injury to the body and/or damage to the system.
- **Certified Engineers**: Only certified engineers should install and modify onboard functionalities.

- **Anti-static Discharge**: If a user open the top cover of the power module, to configure the jumpers or plug in added peripheral devices, ground themselves first and wear and anti-static wristband.

3.3 Installation and Configuration Steps

The following installation steps must be followed.

Step 1: Unpack the UPS module

Step 2: Install the battery pack

Step 3: Mount UPS module to the AFOLUX panel PC

Step 4: Connect the UPS module to the AFOLUX panel PC

3.4 Battery Pack Installation

The battery pack must be installed to enable the UPS module. To install the battery pack, follow the steps below.

Step 1: Remove the four top cover retention screws (**Figure 3-1** and **Figure 3-2**) and lift the top cover off the AUPS Series module.

Figure 3-1: Top Cover Retention Screws (Rear Panel)

Figure 3-2: Top Cover Retention Screws (Top Panel)

Step 2: Install the battery pack into the AUPS Series. Make sure the battery pack is connected to the battery connector on the board. (**Figure 3-3**)

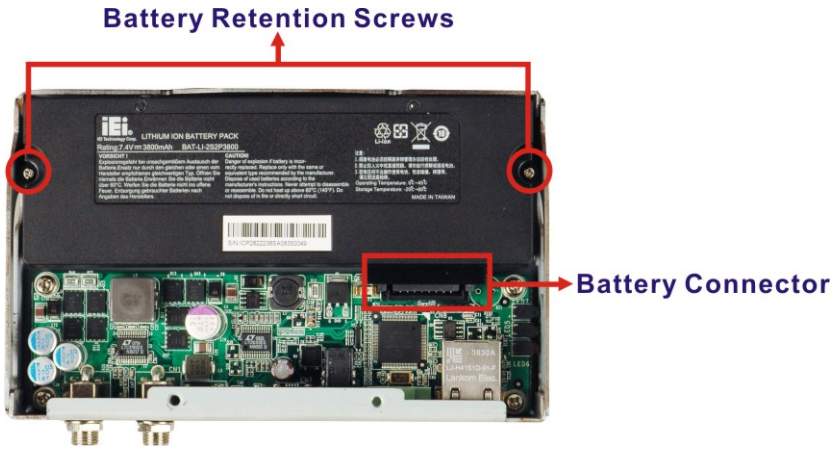


Figure 3-3: Battery Pack Installation

Step 3: Secure the battery pack with two retention screws.

Step 4: Replace the top cover.

3.5 Mounting the AUPS Series

To mount the AUPS Series onto the rear panel of the AFOLUX panel PC, follow the steps below.

Step 1: **Install the mounting bracket onto the rear panel of the AFL panel PC**. Align the screw holes in the mounting bracket with the VESA screw holes in the rear of

the panel PC. Secure the mounting bracket to the panel PC with four retention screws (**Figure 3-4**).

Figure 3-4: Mounting Bracket Installation

Step 2: **Place the AUPS Series onto the mounting bracket**. Secure the AUPS Series to the bracket with three retention screws, one on the top panel and one on each side panel (**Figure 3-5**).

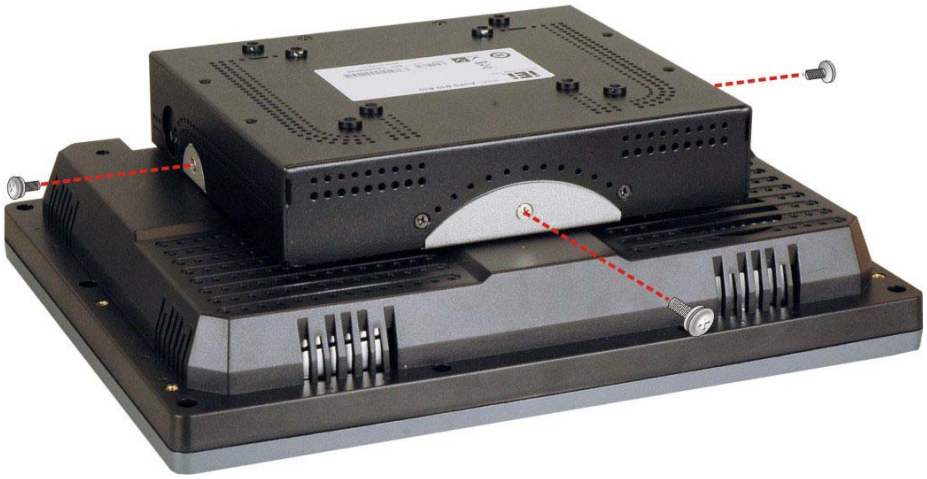


Figure 3-5: Mounting the AUPS Series

3.6 Connecting the AUPS Series

To support the UPS function to the panel PC, the AUPS Series must be connected to the power source and to the panel PC. **Figure 3-6** shows the connections.

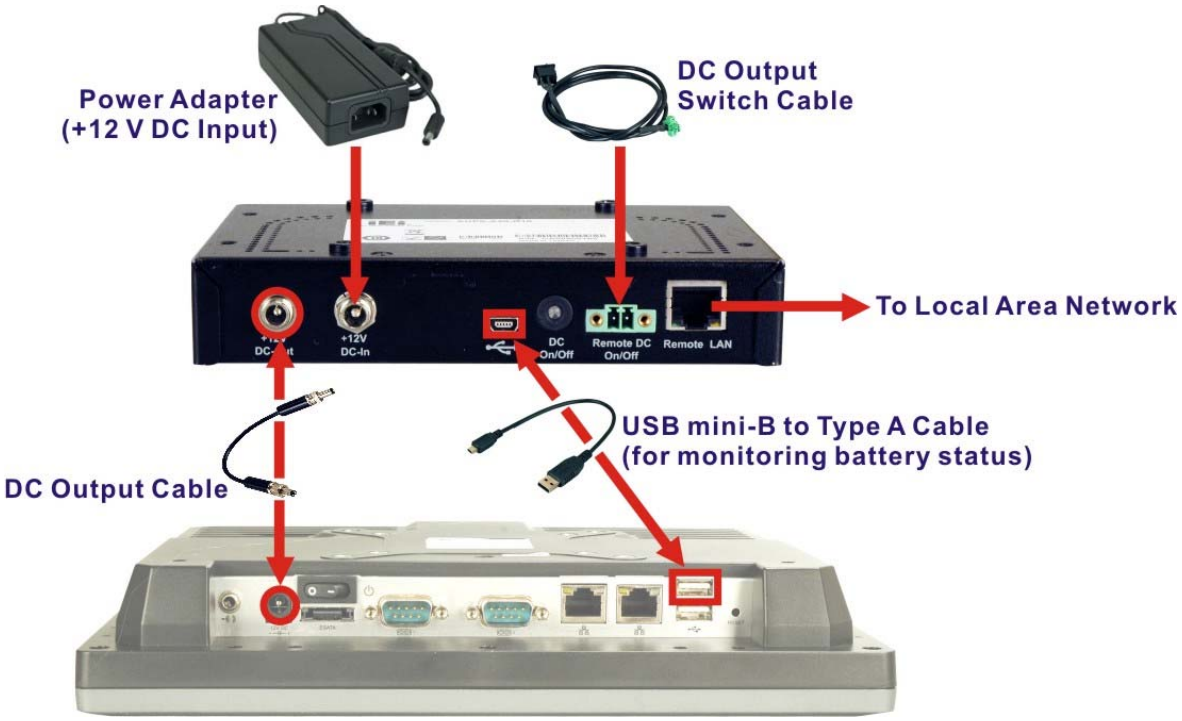


Figure 3-6: AUPS Series and Panel PC Connection

Chapter

4

Software Application

4.1 Introduction

The IEI AUPS Battery Status Monitor application detects the information of the smart battery and monitors the battery status. It is recommended to execute this AUPS application in Windows XP SP2 environment.

4.2 Monitoring DC Power and Smart Battery

4.2.1 Application Installation

Follow the steps below to install the AUPS Battery Status Monitor application.

Step 1: Insert the driver CD into the system. Open the **x:\AUPS_Setup\ AUPS_SetupV1.4** directory. Double click the **Setup.exe** icon.

Step 2: A welcome screen appears (**Figure 4-1**). To continue the installation process click **NEXT**.

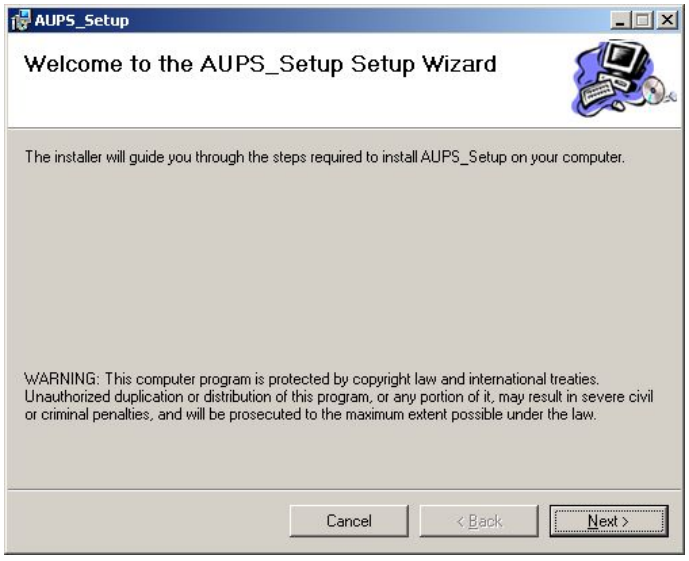


Figure 4-1: Welcome Screen

Step 3: The Select Installation Folder window appears (**Figure 4-2**). Select a folder to install the application.

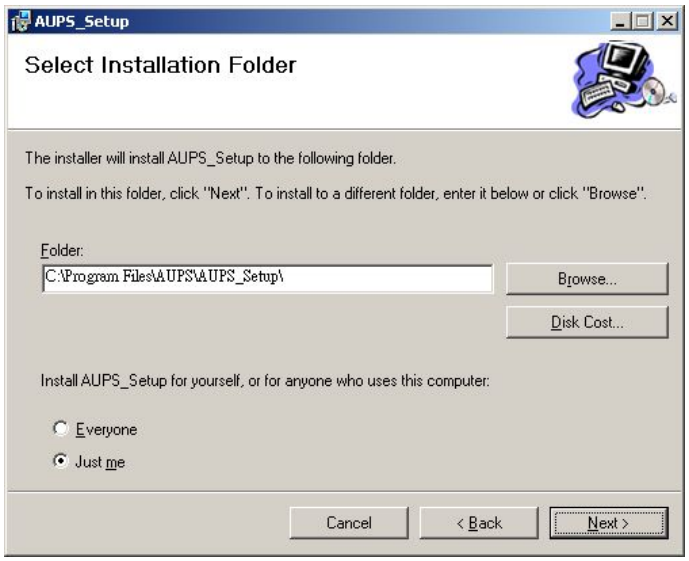


Figure 4-2: Select Installation Folder

Step 4: Click **NEXT** and the Installshield Wizard is ready to install the program (**Figure 4-3**).

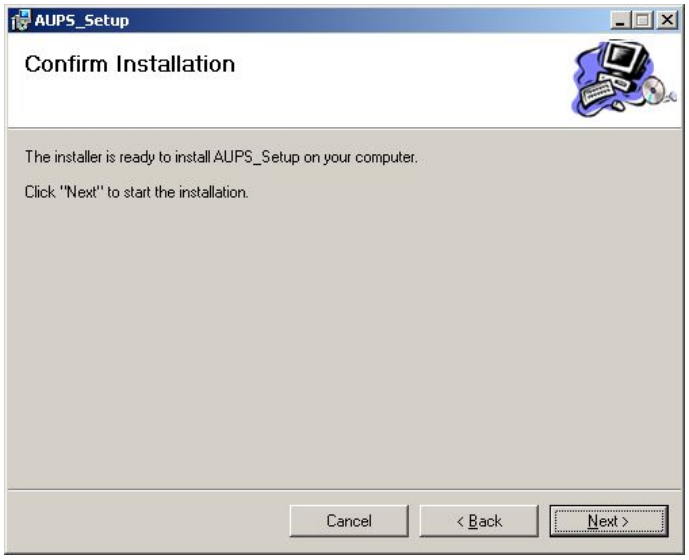


Figure 4-3: Ready to Install the Program

Step 5: Click **NEXT** to continue. The Installing AUPS_Setup screen appears as the program is installed (**Figure 4-4**).

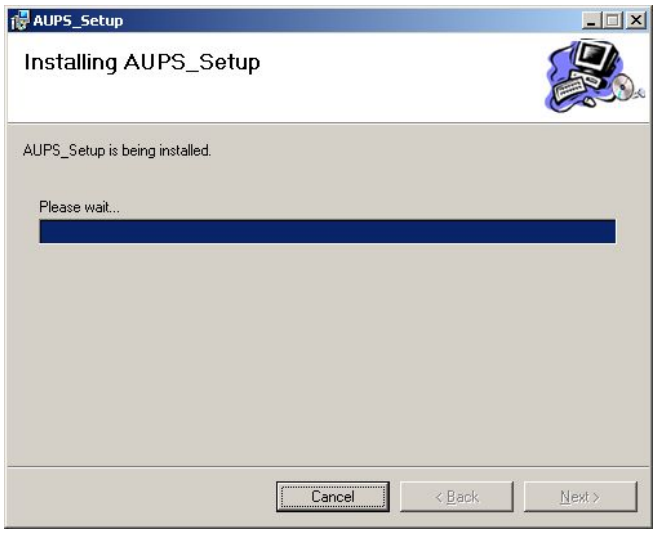


Figure 4-4: Installing AUPS

Step 6: The Installation Complete window appears (**Figure 4-5**). Click **Close** to exit.

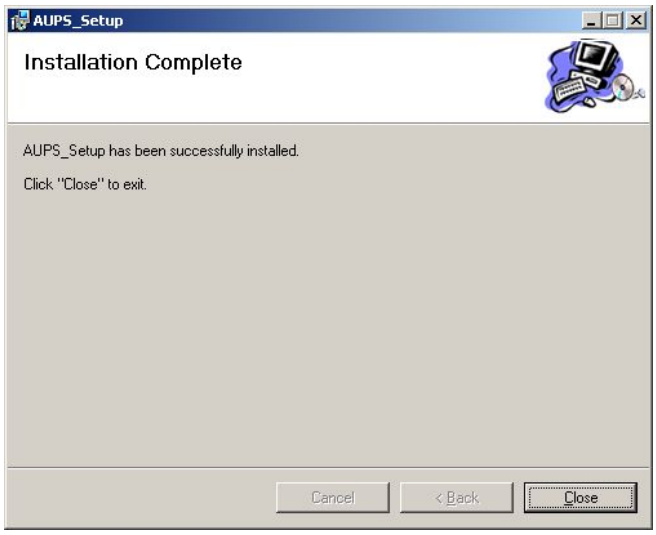


Figure 4-5: Installation Complete

Step 7: To launch the application, double click the shortcut (**Figure 4-6**) on the desktop

Figure 4-6: AUPS Battery Status Monitor Application

4.2.2 Status Information

The IEI AUPS Battery Status Monitor application shows the DC power status and battery status (**Figure 4-7**). The following sections describe the status information in details.

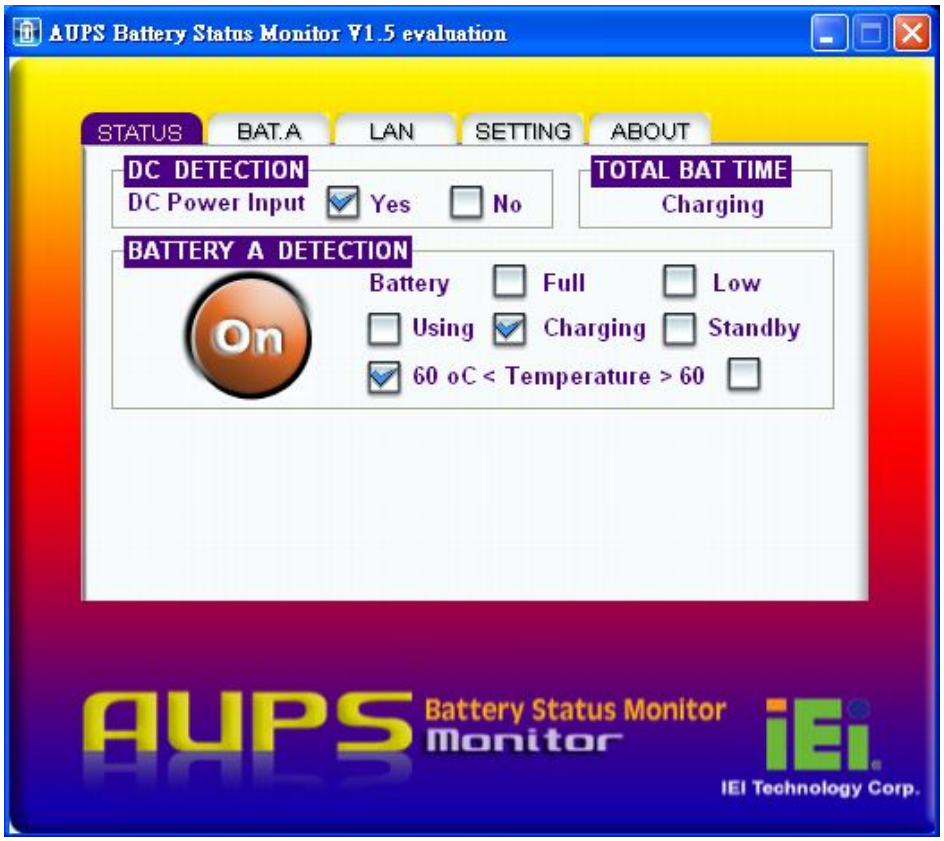


Figure 4-7: Status Information

4.2.2.1 DC Detection

When the DC power is connected to the AUPS series power module, the AUPS Battery Status Monitor detects it and shows in the screen as **Figure 4-8**.

Figure 4-8: DC Detection

4.2.2.2 Battery Detection

When the smart battery is connected to the AUPS series power module, the AUPS Battery Status Monitor detects it and shows in the screen as **Figure 4-9**. Two batteries can be connected to the AUPS series power module at the same time. The second battery information is shown in the **Battery A Detection** section if connected.

Figure 4-9: Battery Detection

	The battery is connected to the AUPS series.
Off	The battery is not connected to the AUPS series.
Full	The battery is fully charged.
Low	The battery is low.
Using	The battery is being used.
Charging	The battery is being charged.
Standby	The battery is fully charged and ready to be used anytime.
>60 C	The battery temperature is above 60°C.
<60 C	The battery temperature is below 60°C.

4.2.2.3 Total Battery Time

The total battery time is shown in the top right corner (**Figure 4-10**) of the status screen to indicate the total battery remaining time.

Figure 4-10: Total Battery Time

4.2.3 Battery Information

Click on the **BAT. A** tab to view the information of battery. The listed information includes battery type, capacity, output voltage, temperature, charging rate, discharging rate and battery status (**Figure 4-11**). The values listed are updated per second.

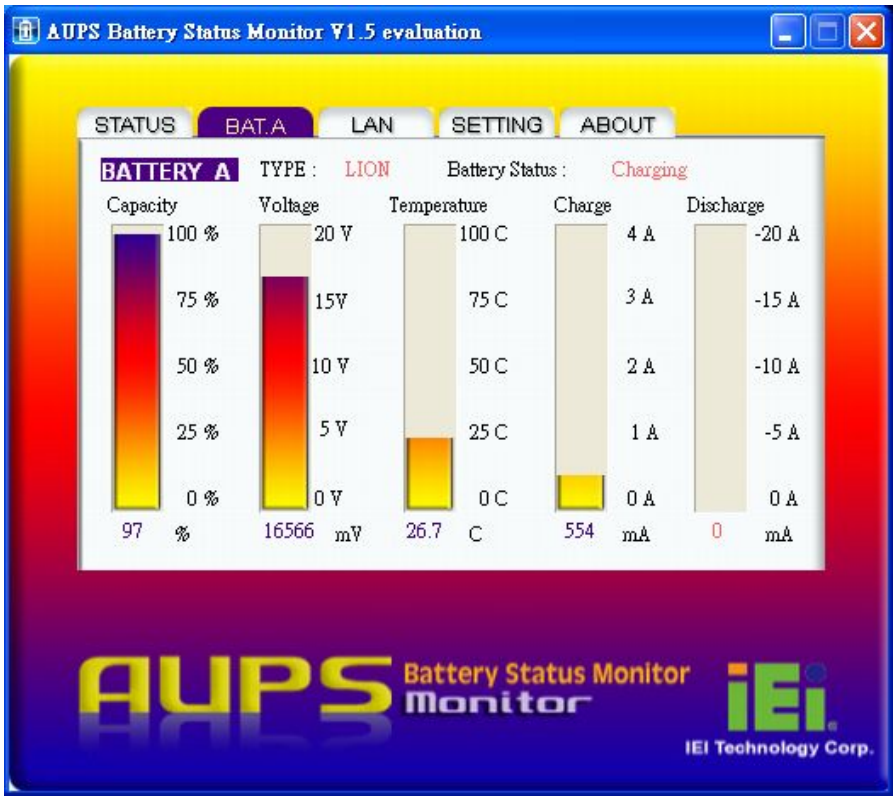


Figure 4-11: Battery Information

4.2.4 LAN Setting

The LAN Setting page is where to configure the Remote LAN settings for power on/off remote control and battery monitoring. To save the modified parameters of this page, click the Save Config button. To load the default settings, click Load Default button.

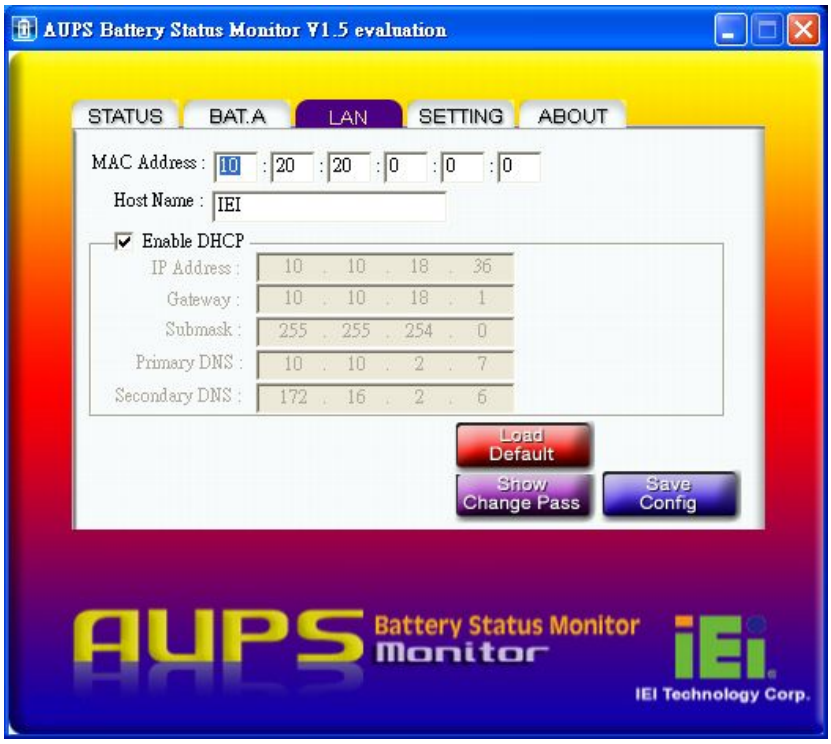


Figure 4-12: LAN Setting

The LAN Setting page can also setup the user name and password for remote monitoring. To change the user name and password, click

button. Enter the new user name and password (**Figure 4-13**). Click

button to save the settings. The default user name and password for the LAN setting page are:

- User name: admin
- Password: IEI

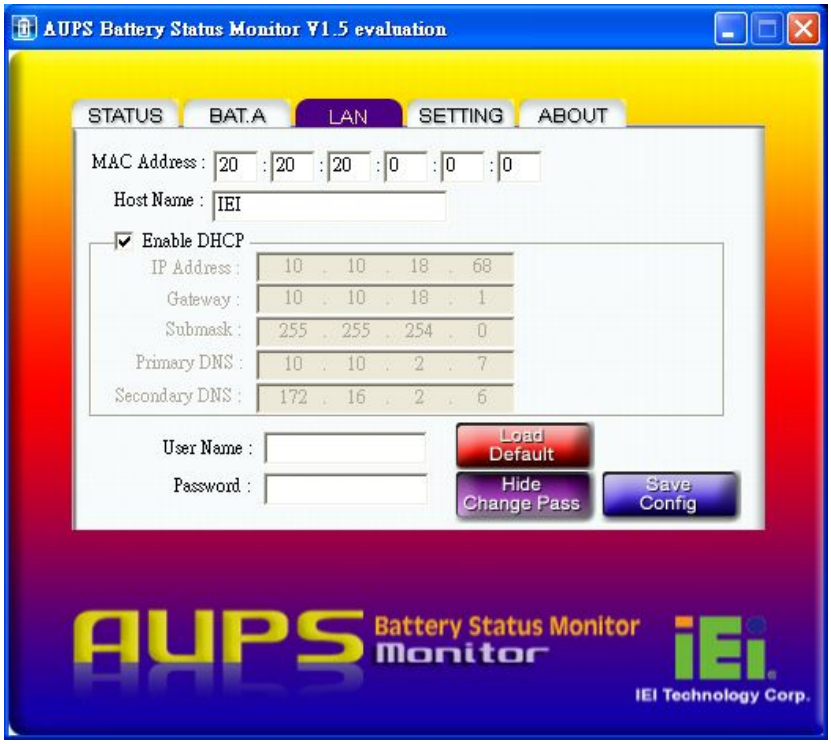


Figure 4-13: LAN Setting – Change Password

4.2.5 Setting

Click on the SETTING tab to select the COM port, enable/disable buzzer, LAN and DC output (**Figure 4-14**).

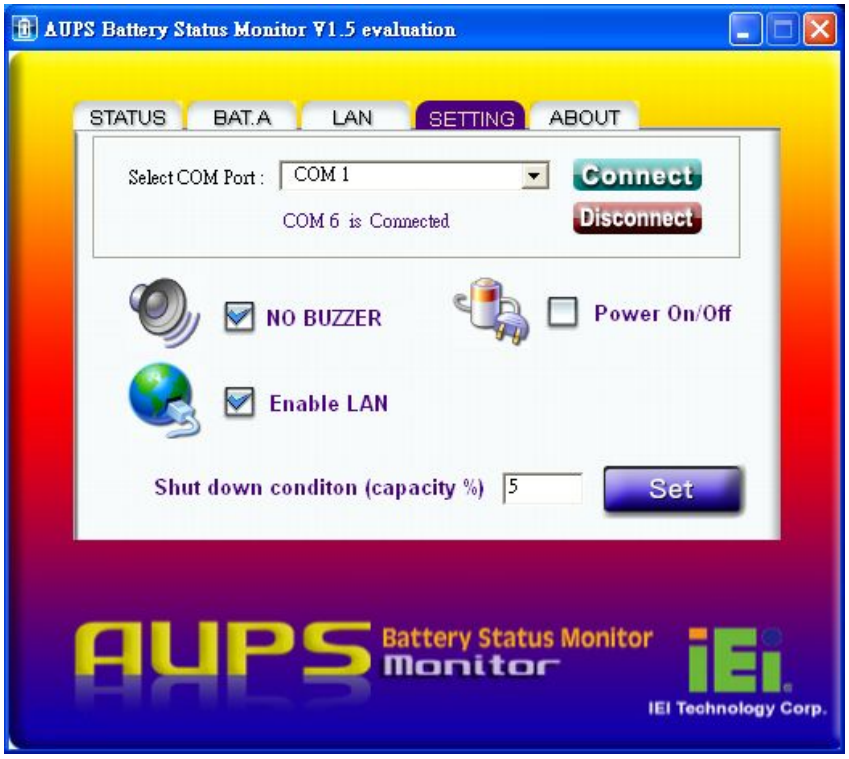
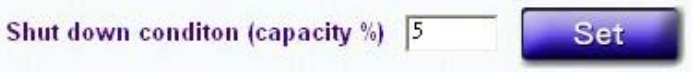


Figure 4-14: Application Setting

When the AUPS Battery Status Monitor application starts up, it automatically scans all COM port (COM1~COM16) and shows the valid COM port. **Figure 4-15** shows the AUPS application is communicating with AUPS Series through COM 6. To change the serial port to communicate, select a proper port number from the list and click Connect. Before changing, please make sure the selected serial port is not used by other devices.

Figure 4-15: COM Port Status

Other functions can be set in the SETTING tab include

	Check to disable the buzzer that warns when the system is switching to use battery power.
	Check to enable the LAN for remote monitoring function.
	Check to enable the remote computer to turn the system power on or off. (This function is not available at this stage.)
	
Set the battery capacity parameter for the system to shut down automatically. In this case, the system will shut down automatically when the battery capacity is below 5%.	

4.3 Remote Control and Monitoring

The AUPS Series can be controlled (power on/off) and monitored the battery status through a remote computer located in the same subnet with the AUPS Series. To control and monitor the AUPS Series remotely, follow the steps below.

Step 1: Connect the RJ-45 remote LAN connector on the bottom panel of the AUPS Series (**Figure 4-16**) to a local area network connector.

Figure 4-16: RJ-45 Remote LAN Connector

Step 2: In a remote computer, install the IEI REMOTE AP. Double click the setup.exe file in the **x:\Other\AUPS REMOTE AP** directory. Follow the steps to install the IEI REMOTE AP. After installation, launch the AP. If there is a problem to launch the tool, execute the dotnetfxRedist20.exe first (located in the same directory of the driver CD).

Step 3: The IEI REMOTE AP tool appears (**Figure 4-17**). All the AUPS Series module in the same subnet with this remote computer are shown in the list on the right. Click the function buttons on the left to control the AUPS Series.

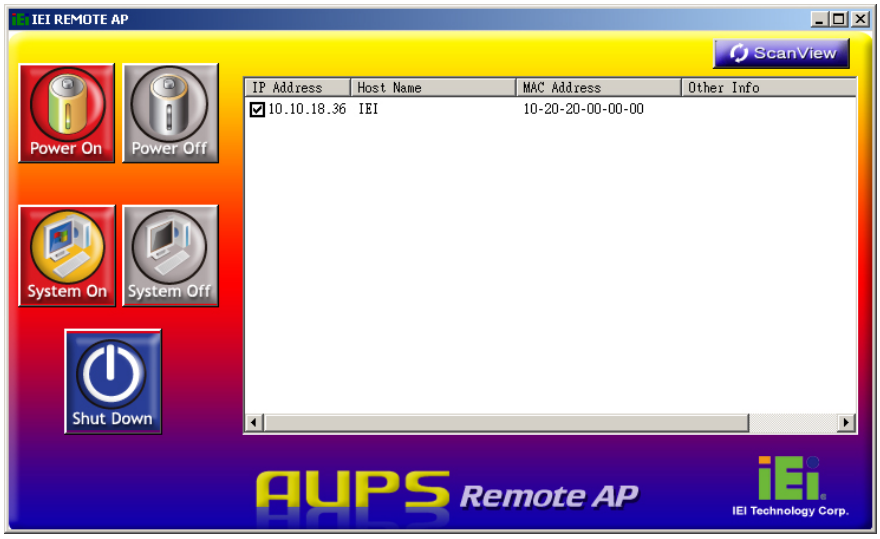


Figure 4-17: IEI REMOTE AP

Step 4: To access the web interface for advanced monitoring and functions, double click the IP address of the connected AUPS Series (**Figure 4-18**).

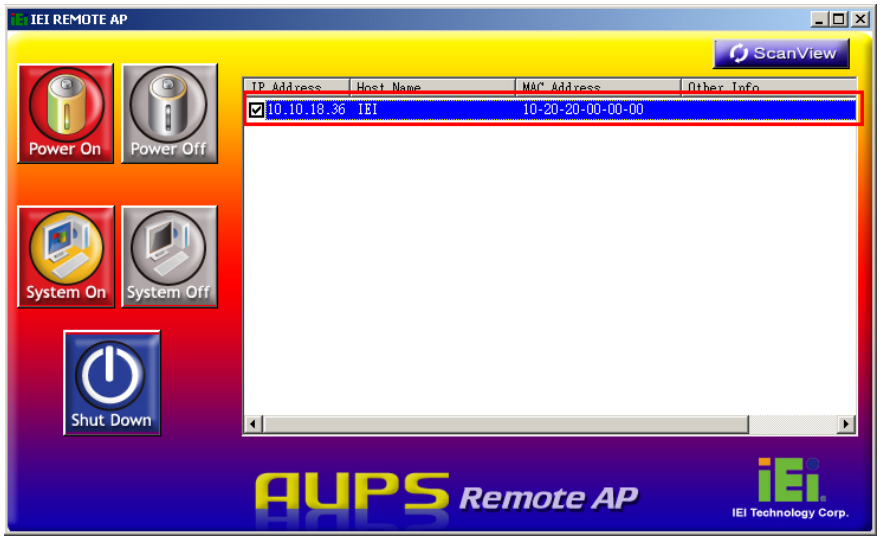


Figure 4-18: IEI REMOTE AP – IP Address

Step 5: **Figure 4-19** shows in a web browser.

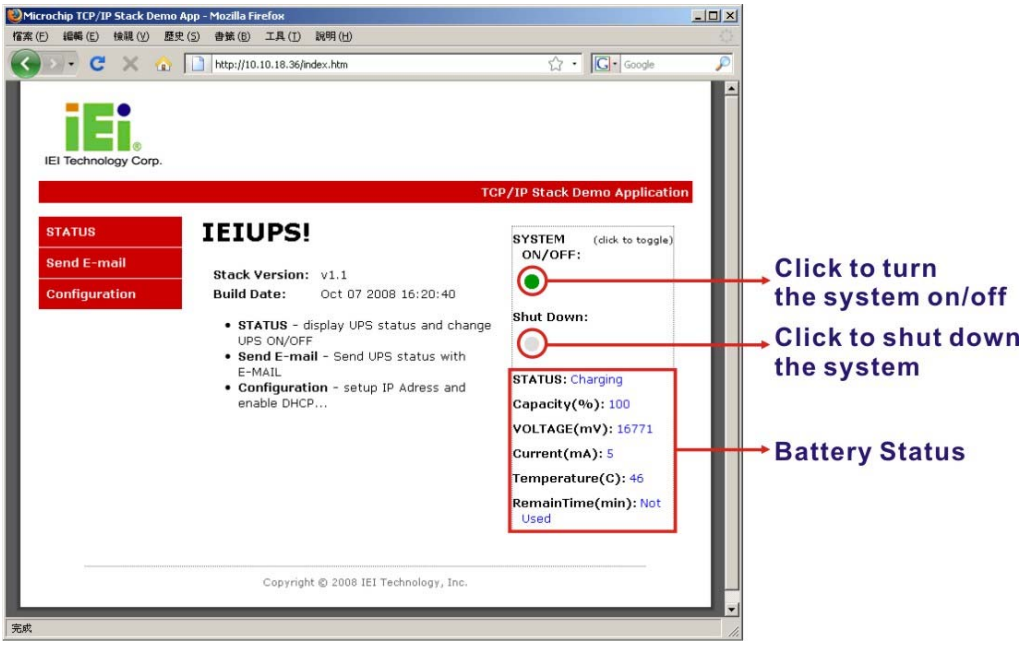


Figure 4-19: Remote Management Web Interface - Status

Step 6: To send an email to an administrator through the SMTP server, click Send E-mail button on the left. Fill out the information as indicated in **Figure 4-20.** Click the **Send Message** button to send the email.

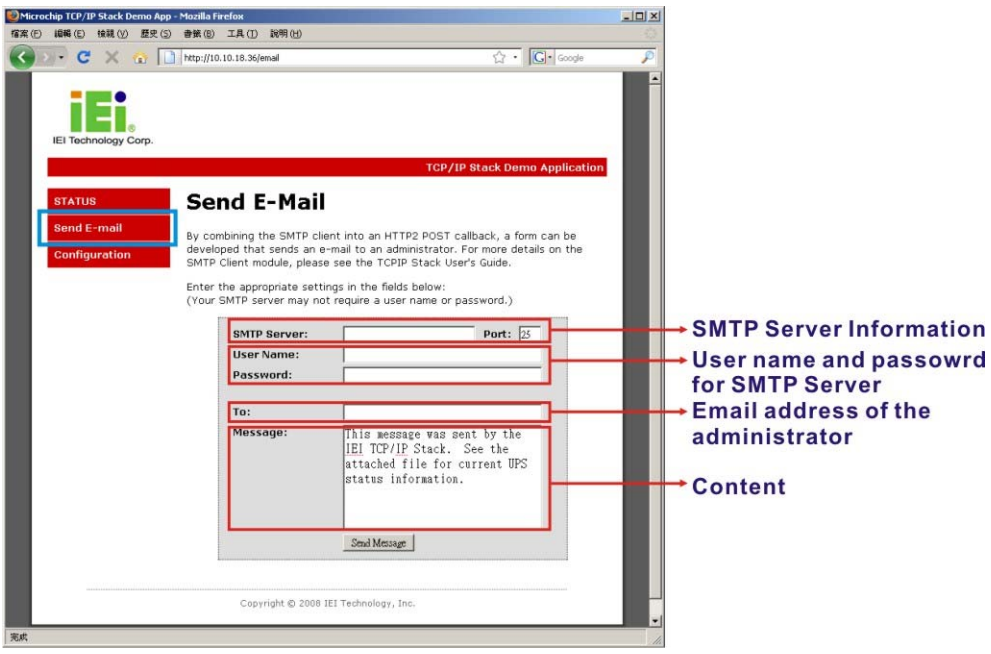


Figure 4-20: Remote Management Web Interface - Send Email

Step 7: To configure the AUPS Series network setting, click the **Configuration** button on the left.

Step 8: A window prompts for the user name and password. The default user name and password for the LAN setting page are:

- User name: admin
- Password: IEI

If the user name and password has been change as described in **Section 4.2.4**, enter the new user name and password.

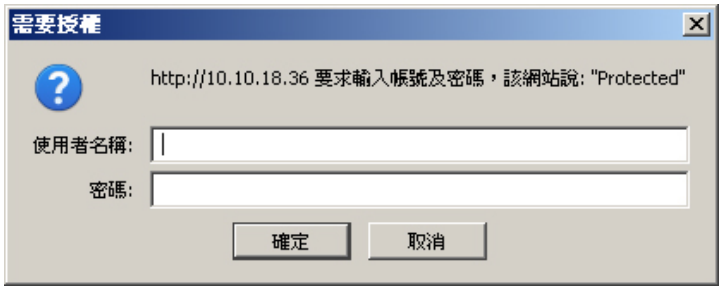


Figure 4-21: Enter User Name and Password

Step 9: The Board Configuration window appears. Configure the network settings and click the **Save Config** button. Incorrect settings may cause the board to lose network connectivity. Recovery options are provided on the next page.

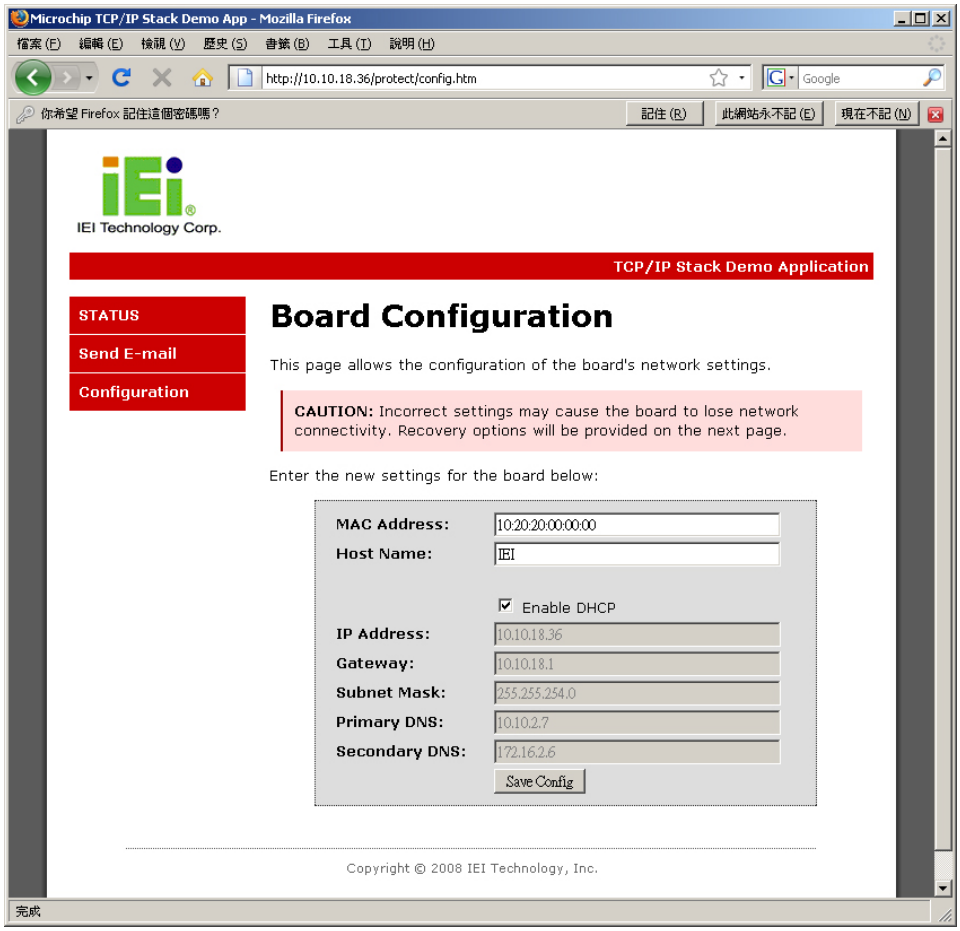


Figure 4-22: Board Configuration

Appendix

A

Hazardous Materials Disclosure

A.1 Hazardous Materials Disclosure Table for IPB Products Certified as RoHS Compliant Under 2002/95/EC Without Mercury

The details provided in this appendix are to ensure that the product is compliant with the Peoples Republic of China (China) RoHS standards. The table below acknowledges the presences of small quantities of certain materials in the product, and is applicable to China RoHS only.

A label will be placed on each product to indicate the estimated “Environmentally Friendly Use Period” (EFUP). This is an estimate of the number of years that these substances would “not leak out or undergo abrupt change.” This product may contain replaceable sub-assemblies/components which have a shorter EFUP such as batteries and lamps. These components will be separately marked.

Please refer to the table on the next page.

Part Name	Toxic or Hazardous Substances and Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (CR(VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Housing	X	O	O	O	O	X
Display	X	O	O	O	O	X
Printed Circuit Board	X	O	O	O	O	X
Metal Fasteners	X	O	O	O	O	O
Cable Assembly	X	O	O	O	O	X
Fan Assembly	X	O	O	O	O	X
Power Supply Assemblies	X	O	O	O	O	X
Battery	O	O	O	O	O	O

O: This toxic or hazardous substance is contained in all of the homogeneous materials for the part is below the limit requirement in SJ/T11363-2006

X: This toxic or hazardous substance is contained in at least one of the homogeneous materials for this part is above the limit requirement in SJ/T11363-2006

此附件旨在确保本产品符合中国 RoHS 标准。以下表格标示此产品中某有毒物质的含量符合中国 RoHS 标准规定的限量要求。

本产品上会附有"环境友好使用期限"的标签，此期限是估算这些物质"不会有泄漏或突变"的年限。本产品可能包含有较短的环境友好使用期限的可替换元件，像是电池或灯管，这些元件将会单独标示出来。

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (CR(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
壳体	X	O	O	O	O	X
显示	X	O	O	O	O	X
印刷电路板	X	O	O	O	O	X
金属螺帽	X	O	O	O	O	O
电缆组装	X	O	O	O	O	X
风扇组装	X	O	O	O	O	X
电力供应组装	X	O	O	O	O	X
电池	O	O	O	O	O	O
O: 表示该有毒有害物质在该部件所有物质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。 X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-006 标准规定的限量要求。						